

Mineral Industry Surveys

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MANGANESE IN AUGUST 2005

On a gross-weight basis, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 30,100 metric tons (t) in August 2005, which was a 62% increase from that in July 2005, according to the U.S. Geological Survey. This figure increases to 32,500 t when estimates for annual respondents are added on the basis of 2004 data. Corresponding industry stocks of ore at the end of the month were 225,000 t, which includes an estimate for annual respondents on the basis of 2004 data. This was a 10% increase over the amount of ending stocks in July 2005.

Foreign trade data for August will appear in a subsequent report. The following comparisons of trade data were made on the basis of manganese content. The data for July 2005 tabulated in this report indicate that the total exports of 1,130 t were 38% lower than those of the prior month, owing to decreases in exports of ferromanganese, silicomanganese, manganese metal, and manganese ore. Manganese imports were 61,000 t, which was an increase of 1% compared with those of June. The increase in manganese imports was due to increases in silicomanganese imports.

Ferroalloy Prices, manganese content

	High-carbon ferromanganese ¹ (dollars per gross ton)	Medium-carbon ferromanganese ¹ (cents per pound)	Silicomanganese ¹ (cents per pound)	Manganese metal ² (cents per pound)
August 4	510.00-530.00	51.00-53.00	29.00-30.00	85.00-87.00
August 11	510.00-530.00	45.00-48.00	29.00-30.00	85.00-87.00
August 18	500.00-520.00	45.00-48.00	29.00-30.00	85.00-87.00
August 25	500.00-520.00	45.00-48.00	29.00-30.00	85.00-87.00

Ore Prices, dollars per metric ton unit, manganese content³

	44% Manganese Ore ²	48% Manganese Ore ²
August 4	1.90-2.10	2.70-2.60
August 11	1.90-2.10	2.70-2.60
August 18	1.90-2.10	2.70-2.60
August 25	1.90-2.10	2.70-2.60

¹Source: Platts Metals Week, dealer import price.

²Source: Ryan's Notes, North American transaction price.

³To determine dollars per metric ton, multiply the manganese content percentage by the price.

TABLE 1
SELECTED U.S. FOREIGN TRADE IN MANGANESE¹

(Metric tons, manganese content)²

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2004:						
July	1,130	66,000 ^r	67,100 ^r	7,260	701	7,960
January-July	141,000	293,000 ^r	434,000 ^r	28,200	5,250	33,500
2005:						
January	7,650	45,000	52,600	162	955	1,120
February	40,700	29,000	69,700	111	1,170	1,280
March	22,300	42,000	64,300	206	1,160	1,360
April	38,400	39,900	78,300	2,350	778	3,130
May	16,500	47,400	64,000	364	1,380	1,740
June	19,500	41,000	60,500	272	1,550	1,820
July	21,000	40,000	61,000	197	934	1,130
Total	166,000	284,000	450,000	3,670	7,920	11,600

^rRevised.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

Source: U.S. Census Bureau.

TABLE 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JULY 2005¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	4,010	2,660	\$2,000,000	20,600	13,700	\$12,400,000
Canada	--	--	--	350	311	195,000
France	2	1	2,860	2	1	2,860
Georgia	6,500	4,950	4,290,000	6,500	4,950	4,290,000
Kazakhstan	--	--	--	20	13	17,500
Korea, Republic of	--	--	--	216	156	305,000
Mexico	1,950	1,280	1,560,000	9,200	6,110	7,520,000
Norway	3,000	1,800	3,680,000	44,100	27,800	43,700,000
Romania	18,000	11,700	12,100,000	46,600	31,500	34,200,000
Russia	--	--	--	11,400	7,750	9,250,000
South Africa	8,370	5,500	4,240,000	62,600	41,400	39,500,000
Spain	--	--	--	4,000	2,670	2,770,000
Total	41,800	27,900	27,900,000	206,000	136,000	154,000,000
Total, general imports	41,800	27,900	27,900,000	206,000	136,000	154,000,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN JULY 2005¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	246	211	\$407,000	11,700	9,940	\$19,300,000
Japan	--	--	--	1,800	1,450	2,170,000
Korea, Republic of	--	--	--	1,390	1,040	1,480,000
Mexico	820	659	922,000	3,590	2,880	4,120,000
Netherlands	--	--	--	17	14	29,800
Norway	--	--	--	221	181	369,000
South Africa	160	148	286,000	1,480	1,370	2,740,000
Spain	--	--	--	36	28	41,800
Total, low carbon	1,230	1,020	1,610,000	20,200	16,900	30,200,000
Total, general imports of low carbon	1,230	1,020	1,610,000	20,200	16,900	30,200,000
Medium carbon, 1%-2% C:						
China	19	38 ³	33,600	3,150	2,520	4,490,000
Korea, Republic of	--	--	--	9,000	7,200	7,430,000
Mexico	1,830	1,460	1,810,000	9,780	7,680	10,600,000
Norway	--	--	--	1,810	1,480	2,610,000
South Africa	650	526	566,000	20,200	16,300	24,300,000
Total, m.c., 1%-2% C	2,500	2,020	2,410,000	43,900	35,200	49,400,000
Total, general imports of m.c., 1%-2% C	2,500	2,020	2,410,000	43,900	35,200	49,400,000
High carbon:						
Australia	--	--	--	4,460	3,420	2,380,000
Brazil	3,020	2,360	1,590,000	13,800	10,700	9,720,000
Canada	--	--	--	18	13	17,000
China	2,000	1,520	1,400,000	7,500	5,720	5,250,000
France	--	--	--	4,100	3,200	2,830,000
Hong Kong	--	--	--	3,360	2,550	1,960,000
Mexico	--	--	--	790	618	717,000
South Africa	2,570	2,000	1,140,000	61,200	47,500	39,900,000
Ukraine	--	--	--	2,840	2,230	1,260,000
Total, high carbon	7,590	5,880	4,130,000	98,100	76,000	64,000,000
Total, general imports of high carbon	7,590	5,880	4,130,000	98,100	76,000	64,000,000
Grand total	11,300	8,910	8,150,000	162,000	128,000	144,000,000
Grand total, general imports	11,300	8,910	8,150,000	162,000	128,000	144,000,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

³All or part of these data have been referred to the U.S. Census Bureau for verification.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN JULY 2005^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	Year to date		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
China	--	--	--	5,140	1,050	\$35,100
Gabon	--	--	--	5,660	6,530	974,000
Ghana	--	--	--	18	7	2,340
Mexico	--	--	--	5,870	3,240	675,000
Namibia	--	--	--	26,000	10,400	1,950,000
United Kingdom	--	--	--	87	40	6,000
Total	--	--	--	42,800	21,300	3,640,000
47% or more manganese:						
Australia	--	--	--	22,500	11,800	2,810,000
Belgium	--	--	--	78	50	58,200
Brazil	60	51	\$53,300	8,770	5,050	1,280,000
China	--	--	--	8,600	4,300	781,000
France	--	--	--	60	56	6,670
Gabon	36,600	19,600	3,820,000	197,000	102,000	16,100,000
Ghana	--	--	--	72	50	4,320
India	--	--	--	82	39	8,620
South Africa	--	--	--	27,300	13,300	2,530,000
Total	36,700	19,700	3,870,000	264,000	137,000	23,600,000
Grand total	36,700	19,700	3,870,000	307,000	158,000	27,200,000

-- Zero.

¹Quantities for general imports and imports for consumption are identical.

²Data are rounded to no more than three significant digits; may not add to totals shown.

³Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN JULY 2005¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Australia	--	--	4,910	\$6,440,000
Belgium	38	\$88,800	318	720,000
Brazil	6	10,200	377	424,000
China	1,680	1,760,000	5,230	5,370,000
Germany	12	27,500	75	236,000
Japan	501	698,000	2,360	3,230,000
Total	2,240	2,580,000	13,300	16,400,000
Total, general imports	2,240	2,580,000	13,300	16,400,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN JULY 2005¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,770	\$2,400,000	8,170	\$12,400,000
Germany	--	--	7	28,200
South Africa	413	661,000	3,690	6,330,000
Total	2,180	3,070,000	11,900	18,700,000
Unwrought powder:				
China	76	136,000	186	342,000
South Africa	292	604,000	2,340	4,570,000
Total	368	740,000	2,520	4,910,000
Unwrought, other:				
China	--	--	100	204,000
Germany	284	509,000	2,080	4,040,000
Spain	226	484,000	1,900	4,150,000
South Africa	--	--	677	1,270,000
Total	510	993,000	4,750	9,660,000
Other manganese, wrought:				
Austria	--	--	1	53,300
China	--	--	300	488,000
France	3	29,700	21	223,000
Germany	--	--	4	42,300
Spain	19	42,000	56	120,000
United Kingdom	--	--	2	7,070
Total	22	71,800	384	934,000
Grand total	3,080	4,870,000	19,500	34,200,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Note: Imports for consumption of metallic manganese waste and scrap totaled 75 tons, all of which was from Canada, to give a year-to-date total of 392 tons.

Source: U.S. Census Bureau.

TABLE 7
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE,
SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN JULY 2005¹

(Metric tons, gross weight)

	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal ²	
	July	Year to date	July	Year to date	July	Year to date	July	Year to date
Australia	--	--	--	--	--	--	--	5
Belgium	--	--	--	--	--	--	88	590
Brazil	--	--	--	--	5	11	(3)	19
Canada	215	2,130	738	6,010	--	242	27	218
Chile	--	4	--	1	--	--	--	--
China	40	4,640	--	--	--	--	--	--
Colombia	--	6	--	--	--	--	--	--
Denmark	--	17	--	--	--	--	--	--
France	--	--	--	--	--	92	--	--
Germany	17	87	--	--	--	--	32	190
Hong Kong	--	--	--	--	--	--	--	2
Indonesia	--	16	--	--	--	11	--	3
Italy	--	--	--	--	--	--	--	4
Japan	--	--	--	--	--	--	26	283
Korea, Republic of	--	--	--	--	--	--	7	27
Kuwait	83	83	--	--	--	--	--	--
Mexico	40	81	120	550	12	308	11	169
Netherlands	--	--	--	2	--	20	--	--
New Zealand	1	1	--	--	--	--	--	--
Peru	--	--	--	--	--	--	--	5
Poland	--	193	--	--	--	--	--	--
Russia	--	21	--	--	--	--	--	--
Spain	--	--	--	--	--	8	--	10
Sweden	--	57	--	--	--	--	32	95
Taiwan	--	--	--	--	--	--	--	(3)
Trinidad and Tobago	--	--	--	--	--	--	--	1
Venezuela	--	--	--	--	--	--	--	3
Total	396	7,330	858	6,570	17	692	223	1,620

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes manganese-aluminum, some other alloys, and waste and scrap.

³Less than 1/2 unit.

Note: Exports of ferromanganese with more than 2% carbon totaled 26 tons, all of which went to Canada, to give a year-to-date total of 828 tons.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JULY 2005, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	Year to date		
				Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	328	\$380	Mexico 180; \$81	2,940	\$1,760	Mexico 1,310; \$528
Manganites, manganates, and other permanganates	--	--	--	38	123	Germany 38; \$123
Potassium permanganate	91	189	Czech Republic 73; \$154	629	1,310	Czech Republic 387; \$815
Sodium permanganate ³	17	54	Germany 17; \$54	211	563	Germany 135; \$476
Sulfates, basket category, including manganese sulfate	2,630	1,530	China 1,220; \$626	27,400	16,000	Mexico 13,800; \$7,320
Exports:						
Manganese dioxide	405	356	Canada 267; \$117	3,270	2,530	Canada 2,180; \$975
Manganese oxides other than dioxide	833	519	Canada 639; \$222	6,360	4,180	Canada 4,490; \$1,630
Manganites, manganates, and other permanganates	11	24	Canada 11; \$24	46	134	Canada 32; \$70
Potassium permanganate	449	1,010	Spain 271; \$604	2,250	4,650	Spain 1,070; \$1,990
Sodium permanganate ³	147	377	Japan 85; \$229	387	1,030	Japan 250; \$689
Sulfates, basket category, including manganese sulfate	1,970	1,860	Canada 1,720; \$853	13,500	9,440	Canada 11,400; \$5,120

-- Zero.

¹Data are rounded to no more than three significant digits.

²For imports, Customs value; for exports, free alongside ship value.

³In December 2004, the U.S. Harmonized Tariff Schedule was changed for manganites, manganates and permanganates to implement the United States-Australia Free Trade Agreement. Starting in 2005, sodium permanganate is tracked separately from the "manganites, manganates, and other permanganates" trade category.

Source: U.S. Census Bureau.